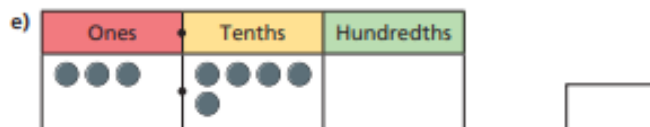
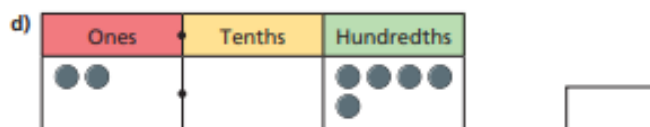
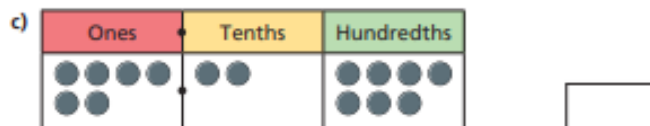
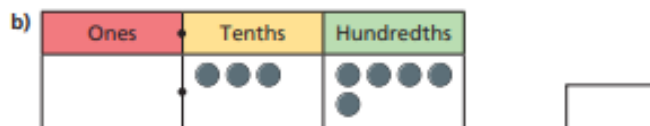
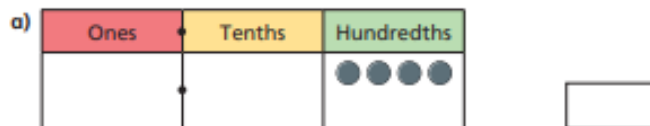


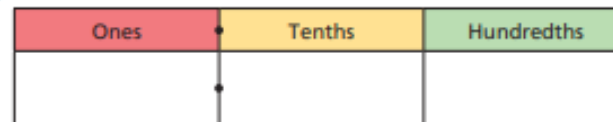
Hundredths on a place value grid

1 Write the decimal that is represented in each place value chart.



2 Use place value counters to make each number.
Draw your answers on the place value charts.

a) 0.06



b) 0.24



c) 1.72

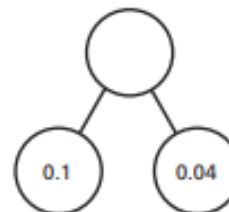


d) 3.08

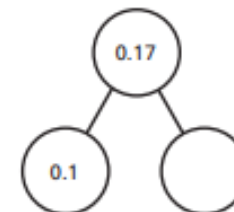


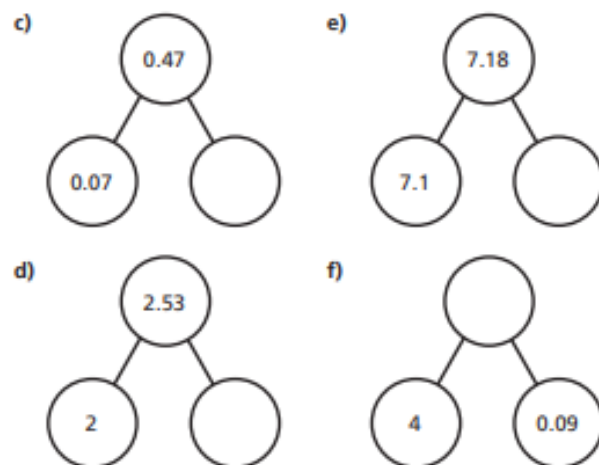
3 Complete the part-whole models.

a)



b)

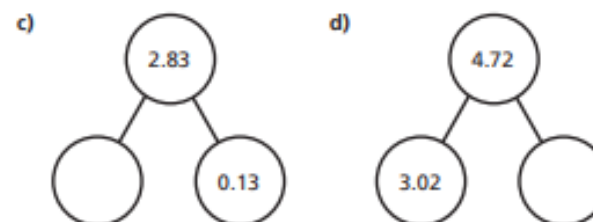
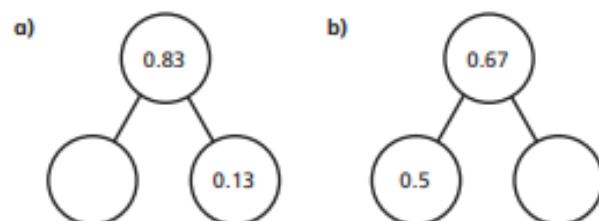




4 Complete the sentences.

- a) 2 tenths can be exchanged for hundredths.
- b) 7 tenths can be exchanged for hundredths.
- c) 7 tenths and 4 hundredths is equivalent to hundredths.
- d) tenths and hundredths is equivalent to 26 hundredths.

5 Complete the part-whole models.



6 Whitney, Tommy, Esther and Dexter each have the same three digit cards and a place value chart.

Ones	Tenths	Hundredths			
			0	3	6

When they put the cards in the chart with one in each space, they each make a different number.

Use the clues to work out each person's number and write it on their place value chart.

- Dexter makes the greatest number possible.
- Tommy makes the number closest to four.
- Esther and Whitney choose the two numbers closest together (Esther makes the slightly greater number).

Dexter			Tommy		
Ones	Tenths	Hundredths	Ones	Tenths	Hundredths

Whitney			Esther		
Ones	Tenths	Hundredths	Ones	Tenths	Hundredths

Dividing 1 and 2 digits by a hundred

- 1 a) Draw counters to show 8 on the place value chart.

Ones	Tenths	Hundredths

- b) Complete the division.

$$8 \div 100 = \square$$

- c) Draw counters to show your answer on the place value chart.

Ones	Tenths	Hundredths

What do you notice?

- 2 a) Draw counters to show 80 on the place value chart.

Tens	Ones	Tenths	Hundredths

- b) Complete the division.

$$80 \div 100 = \square$$

- c) Draw counters to show your answer on the place value chart.

Tens	Ones	Tenths	Hundredths

What do you notice?

- 3 Complete the sentence.

To divide by 100 you move the counters places to the _____

- 4 Complete the calculations.

a) $3 \div 100 = \square$

d) $\square = 60 \div 100$

b) $90 \div 100 = \square$

e) $\square \div 100 = 0.5$

c) $\square = 5 \div 100$

f) $0.02 = \square \div 100$

- 5 Dora is working out $48 \div 100$ using a place value chart.

Tens	Ones	Tenths	Hundredths
● ● ● ●	● ● ● ● ● ● ● ●		



To divide by 100 you move two places to the right, so $48 \div 100$ is 40.08

Tens	Ones	Tenths	Hundredths
● ● ● ●			● ● ● ● ● ● ● ●

- a) Explain the mistake that Dora has made.

- b) Complete the division.

$$48 \div 100 = \square$$

- 6 This Gattegno chart shows the number 37

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

- a) Explain how you would work out $37 \div 100$ using this chart.

Compare answers with a partner.

- b) Use the Gattegno chart to complete the division.

$$92 \div 100 = \boxed{}$$

- c) Use the Gattegno chart to complete the division.

$$19 \div 100 = \boxed{}$$

- 7 Complete the calculations.

a) $31 \div 100 = \boxed{}$

e) $\boxed{} = 29 \div 100$

b) $60 \div 100 = \boxed{}$

f) $\boxed{} \div 100 = 0.58$

c) $\boxed{} = 85 \div 100$

g) $0.5 = \boxed{} \div 100$

d) $0.01 = \boxed{} \div 100$

h) $0.3 = 30 \div \boxed{}$



- 8 Complete the calculations.

a) $36 \div 10 = \boxed{}$

b) $91 \div 10 = \boxed{}$

$$36 \div 100 = \boxed{}$$

$$91 \div 100 = \boxed{}$$

$$36 \div 10 \div 10 = \boxed{}$$

$$91 \div 10 \div 10 = \boxed{}$$

What do you notice?

9

Dividing by 100
is always the same as
dividing by 10 twice.



Do you agree with Amir? _____

Explain your answer.

- 10 Roll two dice to make two 2-digit numbers.

Divide your numbers by 100. Record your answer. Roll again.

Here is an example.



$36 \div 100$ and $63 \div 100$

$$\boxed{} \div 100 = \boxed{} \text{ and } \boxed{} \div 100 = \boxed{}$$

$$\boxed{} \div 100 = \boxed{} \text{ and } \boxed{} \div 100 = \boxed{}$$

What is the greatest possible answer you can get?

What is the smallest possible answer?

Compare answers with a partner.